

Work Order ID 94014 -1

November 29, 2012 12:59:18 PM

SPLIT

\*94014\*

~~PRELIMINARY ISSUE~~

Page 1

Item ID: D4735-1

Accept

\*N900040100\*

Setup Start \*NS1\*

Revision ID: ~~PRELIM~~

Stop \*NS2\*

Item Name: Scuff Plate

Start Date: 11/29/12 Start Qty: 20.00

\*20\*

Cust Item ID:

Required Date: 12/19/12 Req'd Qty: 20.00

\*20\*

Customer:

Reference:

Approvals:

Process Plan: *C2*

Date: *12/11/12* Tooling:

Date:

Run Start \*NR1\*

QC:

Date:

SPC (Y/N):

Date:

Stop \*NR2\*

Sequence #	Operation Description	Set Up Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
------------	-----------------------	------------------	---------	--------	-----------	------------	------------	---------------	-------------

Draw Nbr

Revision Nbr

D4735

*Rev A 12/12/12*

100

0.00

\*100\*

Purchasing

Memo

0.00

Purchasing

Issue P/O: *18539*

Make as per Dwg D4735

Possible Supplier: G.F.Y.

Material release note is required

*C2 12/11/12 (20)*

110

Receive & Inspect for Damage & Mat'l Certs

0.00

\*110\*

Packaging

Memo

0.00

Packaging

*12/13/12 (10)*

120

QC6- Inspect dimensions to drawing

0.00 - impacts to Releases

\*120\*

QC

Memo

0.00

Quality Control

*Rev A 12/10/12*

*P/O ->*

*DAS 16*

28

*Spec Pink against stop not controlled drug.*





NCR: Yes / No 94014

### WORK ORDER NON-CONFORMANCE / UPDATE

DQA: John Date: 13/1/14

QA Closed: ck Date: 11

Work Order: <u>94014</u> Part No. <u>D 4735-1</u> NCR No. <u>13-2167</u>	<b>DISPOSITION</b> Rework <input type="checkbox"/> Scrap <input type="checkbox"/> Use-as-is <input checked="" type="checkbox"/> Work Order Update <input type="checkbox"/>	<b>AGAINST DEPARTMENT/PROCESS</b> <table style="width:100%; font-size: small;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input checked="" type="checkbox"/></td> <td></td> </tr> </table>	Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>	Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>	Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>	Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input checked="" type="checkbox"/>	
Skid-tube <input type="checkbox"/>	Crosstube <input type="checkbox"/>	Water Jet <input type="checkbox"/>	Engineering <input type="checkbox"/>															
Machining <input type="checkbox"/>	Small Fab <input type="checkbox"/>	Prod. Eng. Coord. <input type="checkbox"/>	Quality <input type="checkbox"/>															
Thermoforming <input type="checkbox"/>	Finishing <input type="checkbox"/>	Rec/Store/Packaging <input type="checkbox"/>	Other <input type="checkbox"/>															
Large Fab <input type="checkbox"/>	Composite <input type="checkbox"/>	Supplier <input checked="" type="checkbox"/>																

Root Cause		Date	Step	Qty	Description of work order update or Non-conformance	Initial Chief Eng	Action Description	Sign & Date	Verification	QC Inspector
Doc/Data		13/1/14	# 110	x60.	wrong mat. used by vendor. used 1/2 hard 304 should have been 20 mvels.	 13/01/14	Accurate per Attack E-mail from David S 13/01/14	 13/01/14	 13/01/14	 13/1/14
Equip/Tooling										
Operator										
Material										
Setup										
Other										
Process										
Supplier										
Training										
Unapproved										

#### FAULT CATEGORY

<b>Landing Gear</b> <input type="checkbox"/> Bending <input type="checkbox"/> Centre Not Concentric to O/S <input type="checkbox"/> Cracks <input type="checkbox"/> Crushed/Crimped <input type="checkbox"/> Cuffs <input type="checkbox"/> Heat Treat <input type="checkbox"/> Inspection Strip in Tube <input type="checkbox"/> Ripples in Bend <input type="checkbox"/> Torque Waves in Extrusion <input type="checkbox"/> Turning Sequence <input type="checkbox"/> Wave/Twist in Tube	<b>General</b> <input type="checkbox"/> Bend <input type="checkbox"/> BOM/Route <input type="checkbox"/> Broken/Damaged <input type="checkbox"/> Burrs <input type="checkbox"/> Contamination <input type="checkbox"/> Countersink <input type="checkbox"/> Cut Too Short <input type="checkbox"/> Drill Holes <input type="checkbox"/> Drawing <input type="checkbox"/> Finish <input type="checkbox"/> Folio	<input type="checkbox"/> Grain <input type="checkbox"/> Hardware <input type="checkbox"/> Inspection Incomplete <input type="checkbox"/> Instructions Incomplete/Unclear <input type="checkbox"/> Maintenance <input type="checkbox"/> Mislabeled <input type="checkbox"/> Misread <input type="checkbox"/> Offset <input type="checkbox"/> Out of Calibration <input type="checkbox"/> Out of Sequence <input type="checkbox"/> Outside Dimensions	<input type="checkbox"/> Ovalized <input type="checkbox"/> Over/Under tolerance <input type="checkbox"/> Part Incorrect <input type="checkbox"/> Part Lost/Missing <input type="checkbox"/> Part Moved <input type="checkbox"/> Positioned Wrong <input type="checkbox"/> Power Loss/Surge	<input type="checkbox"/> Pressure/Forced <input type="checkbox"/> Temperature/Cure <input type="checkbox"/> Weld <input checked="" type="checkbox"/> Wrong Stock Pulled <input type="checkbox"/> Other
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# Work Order ID 94014

November 29, 2012 12:59:18 PM

**\*94014\***

Page 2

Item ID: D4735-1 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: PRELIM Stop **\*NS2\***  
 Item Name: Scuff Plate  
 Start Date: 11/29/12 Start Qty: 20.00 **\*20\*** Cust Item ID:  
 Required Date: 12/19/12 Req'd Qty: 20.00 **\*20\*** Customer:  
 Reference:

Approvals: Process Plan: Date: Tooling: Date: Run Start **\*NR1\***  
 QC: Date: SPC (Y/N): Date: Stop **\*NR2\***

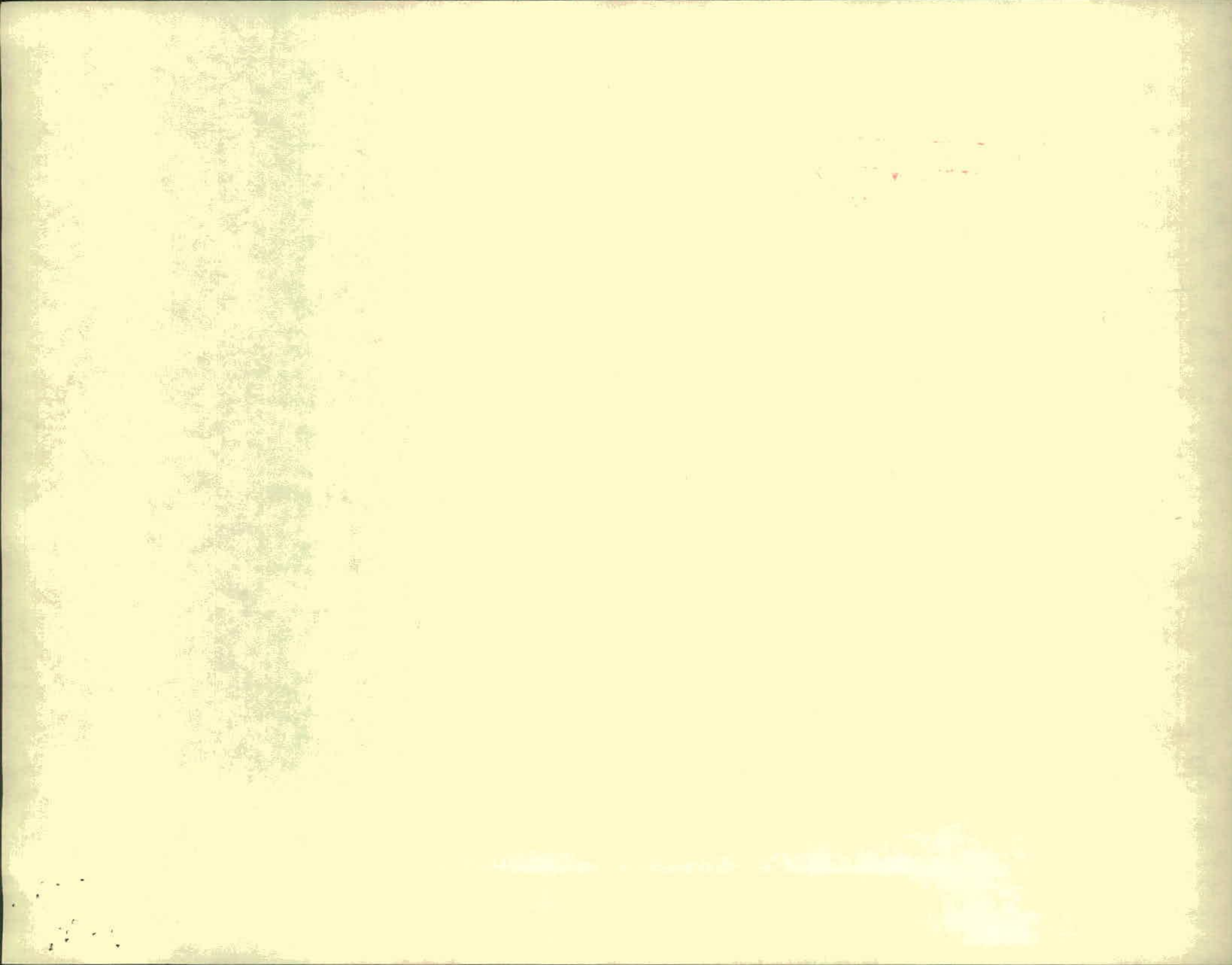
Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Identify as per dwg & Stock Location: _____	0.00							
<b>*130*</b>									
Packaging	Memo <i>24/0</i>	0.00							
Packaging									
140	QC21- Final Inspection - Work Order Release	0.00							
<b>*140*</b>									
QC	Memo	0.00							
Quality Control									

*4/3/14 (10)*

*MCS 13-01-04*

*U 1301-04*

POSITIVE RECALL  
 EFFECTIVE 12-11-79 AUTH U  
 RELEASED U DATE 13-01-04  
 ECN 12-01-04



# Picklist Print

November 29, 2012 12:59:17 PM

Page 1

Work Order ID: 94014

Parent Item: D4735-1

Parent Item Name: Scuff Plate

Start Date: 11/29/12

Required Date: 12/19/12

Start Qty: 20.00

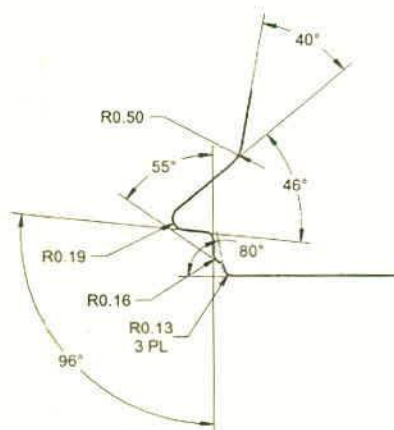
Required Qty: 20.00

Comments: IPP REV:A 12.11.01 NEW ISSUE DD VERF:JLM

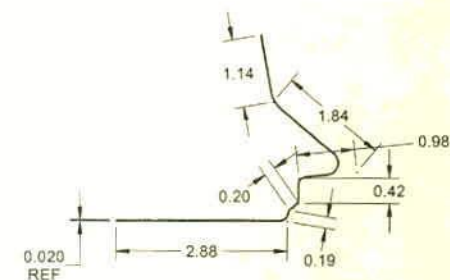
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D4735-1P Scuff Plate		Manufactured	No			110	Each	0.0000	1	20		12/3/01/4 (10)	







**D4735-1 SCUFF PLATE**



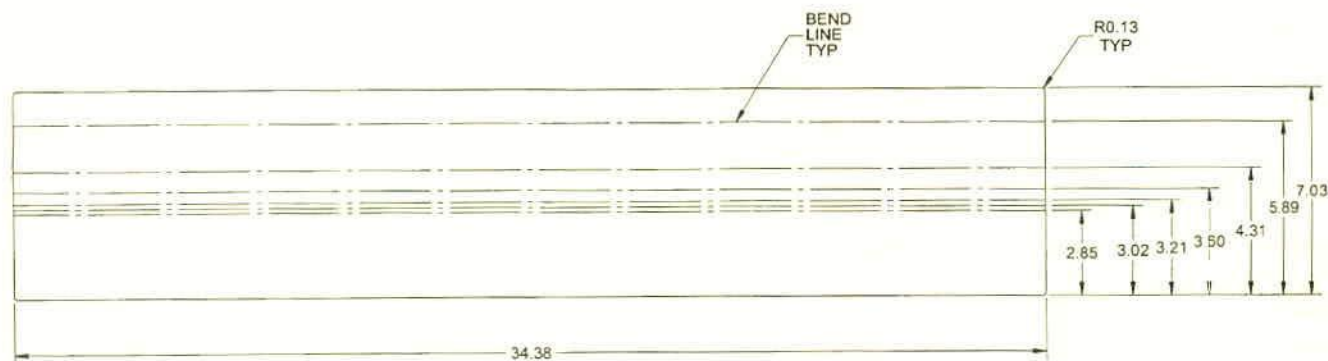
**RELEASED**  
12.01.04  
ECW 12-046

**NOTES:**

- 1) MATERIAL: MAKE FROM D4735-1F FLAT PATTERN
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: IDENTIFY PER QSI 044 6.1
- 7) WEIGHT: 1.40 lbs

REV.	DESCRIPTION	BY	DATE
A	NEW ISSUE	RF	12.11.01
DESIGN	RF	<b>DART AEROSPACE USA, INC.</b> KENT, WA	
DRAWN	RF		
CHECKED	RF	DRAWING NO.	REV. A
MFG. APPR.	RF	D4735	SHEET 1 OF 2
APPROVED	RF	TITLE	SCALE
DE APPR.	RF	SCUFF PLATE	NTS
DATE	12.11.01	<small>COPYRIGHT © 2012 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL, AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COPIED OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF DART AEROSPACE USA, INC.</small>	





# **D4735-1F FLAT PATTERN SCUFF PLATE**

## **NOTES:**

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL ANNEALED 2B FINISH 0.020 (25 GAUGE) SHEET  
PER MIL-S-5059  
OR AMS 5513 (304)  
OR AMS 5524 (316)  
OR ASTM A240  
OR ASME SA240  
PER DART SPEC. M304S25GA
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 1.40 lbs

DESIGN	RF	<b>DART AEROSPACE USA, INC.</b> KENT, WA	
DRAWN	RF		
CHECKED	<i>[Signature]</i>	DRAWING NO.	REV. A
MFG. APPR.	<i>[Signature]</i>	<b>D4735</b>	SHEET 2 OF 2
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	<b>SCUFF PLATE</b>	NTS
DATE	12.11.01	COPYRIGHT © 2012 BY DART AEROSPACE USA, INC. THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSES OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE USA, INC.	

**RELEASED**  
13.01.04  
E0112-696







Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO18539

Purchase Order Date 11/29/12

PO Print Date 11/29/12

Page Number 1 of 1

Order From :

VC-GFI001

GFI  
180 AVENUE LABROSSE  
POINTE CLAIRE, QC H9R 1A1  
CA

Contact Name

Vendor Phone

514 630 4877

Vendor Fax

514 630 4849

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAKED**  
C212/11/29

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	D4735-1P	Scuff Plate	12/19/12 Yes	20.00 Each	FedEx PI collect	\$110.0000	\$2,200.00

Special Inst: AS PER DWG D4735 REV. PA1  
B94014

PO Total:

\$2,200.00

MATERIAL CERTIFICATION  
REQ'D UPON DELIVERY

CERTIFICATE OF CONFORMITY  
REQ'D UPON DELIVERY

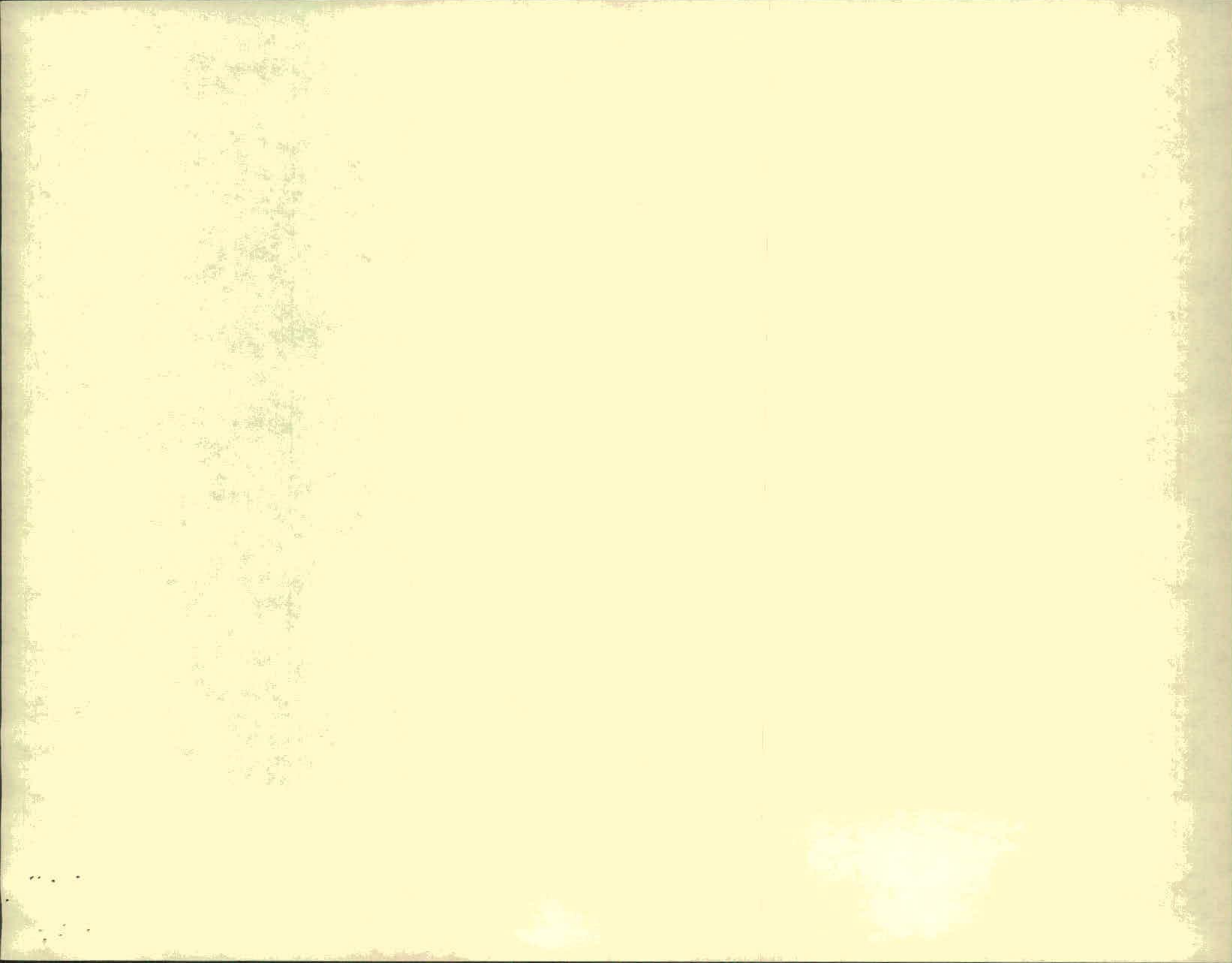
No substitution or deviation without  
consent.

Certificate of Conformity or Material  
Certification required - YES NO

Change Nbr:

1

Change Date: 11/29/12





180 AVENUE LABROSSE  
POINTE-CLAIRE, QC, CANADA H9R 1A1  
TÉL.:(514) 630-4877 - FAX:(514) 630-4849

GFI est une division de Thomas & Betts Fabrication Inc. / GFI is a division of Thomas & Betts Manufacturing Inc.



# BON DE LIVRAISON / SHIPPING MEMO

DATE DE LIVRAISON / SHIPPING DATE			N° DE BON DE LIVRAISON / SHIPPING MEMO NO.		PAGE
JR - DY	MO - MO	AN - YR			
03	01	13	0504312		1/1



VENDU À / SOLD TO

EXPÉDIÉ À / SHIP TO

DART AEROSPACE LTD  
1270 ABERDEEN ST.  
HAWKESBURY, ON  
K6A 1K7

DART AEROSPACE LTD  
1270 ABERDEEN ST.  
HAWKESBURY, ON  
K6A 1K7

CODE DE CLIENT / CUSTOMER CODE	N° DE CONTRAT / JOB NO.	VOTRE N° DE COMMANDE / YOUR PURCHASE ORDER NO.	EXPÉDIÉ PAR / SHIP VIA
DART	GFI-0299	PO18539	

QUANTITÉ / QUANTITY	N° DE PIÈCE / PART NO.	DESCRIPTION
---------------------	------------------------	-------------

10 D4735-1P

SCUFF PLATE

CERTIFICATE OF CONFORMANCE REQ

MFG. JOB# J0260581-001 QTY 10 pcs.

DUE DATE: 19 December 2012



REÇU PAR / RECEIVED BY

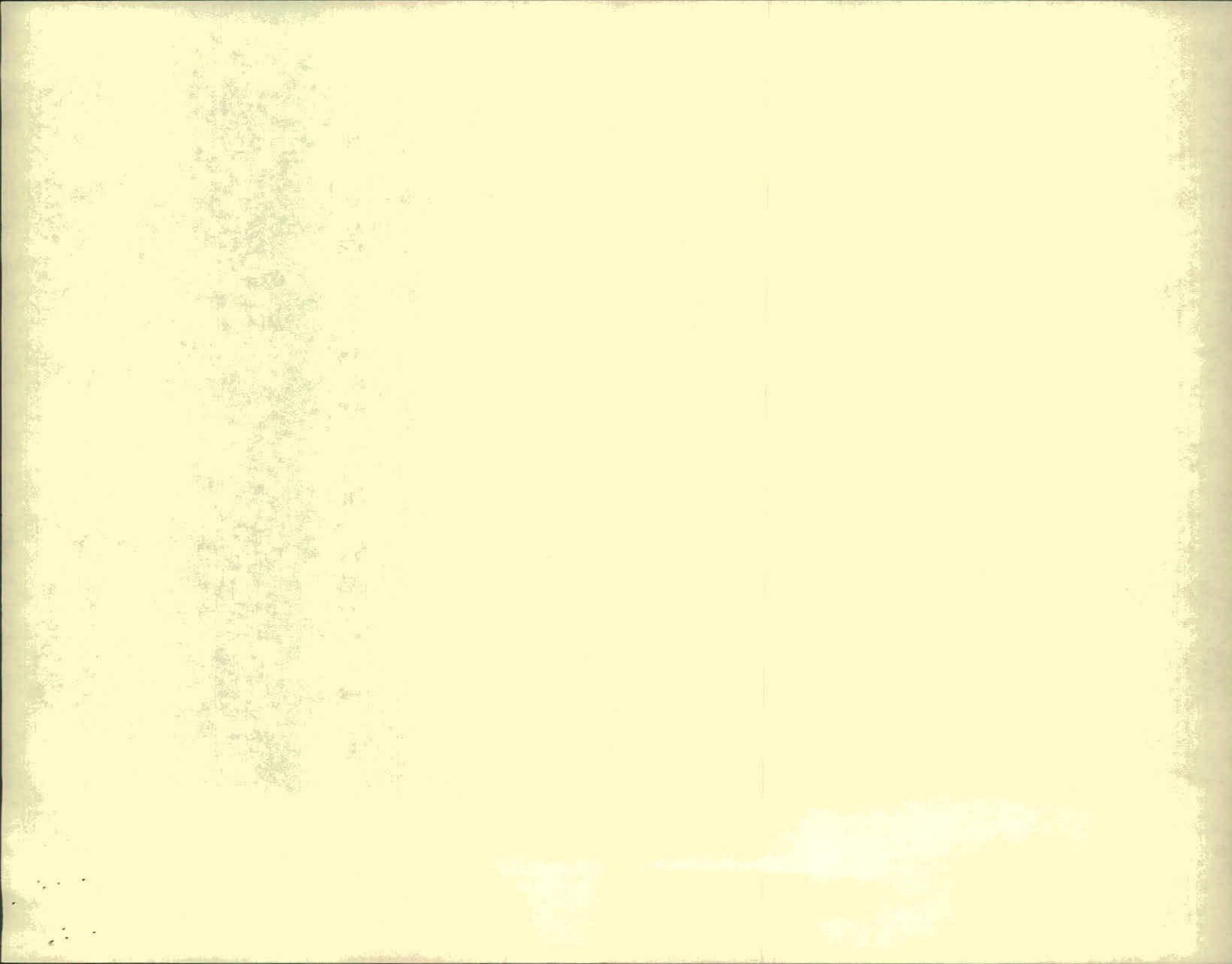
DATE

EXPÉDITEUR / SHIPPER

N° DE BON DE LIVRAISON / SHIPPING MEMO NO.



TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES EN DEDANS DE 5 JOURS DE LA RÉCEPTION.  
ALL CLAIMS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF GOODS.





# CERTIFICATE OF COMPLIANCE CERTIFICAT DE CONFORMITE



Membre de / A Member of **Thomas & Betts**

180 LABROSSE AVENUE  
POINTE CLAIRE, QC  
H9R 1A1

**DART AEROSPACE LTD**  
1270 ABERDEEN ST.  
HAWKESBURY, ON K6A 1K7

CERTIFICATE NO. <u>2</u>		OUR JOB NO <u>J0260581</u>		SHIPPING MEMO <u>0504312</u>	
ITEM	QUANTITY	PURCHASE ORDER	PART NUMBER	REV	NAME
<u>-</u>	<u>10 PCS</u>	<u>PO18539</u>	<u>D4735-1P</u>	<u>PA3</u>	<u>SCUFF PLATE</u>
MATERIAL		SUPPLIED BY		MAT. REL. NO.	
<u>AMS 5911 304 1/2 HARD</u>		<u>SIGMA/ PRECISION SPECIALTY/ NORTH AMERICAN STAINLESS</u>		<u>H/N 9TY2</u>	

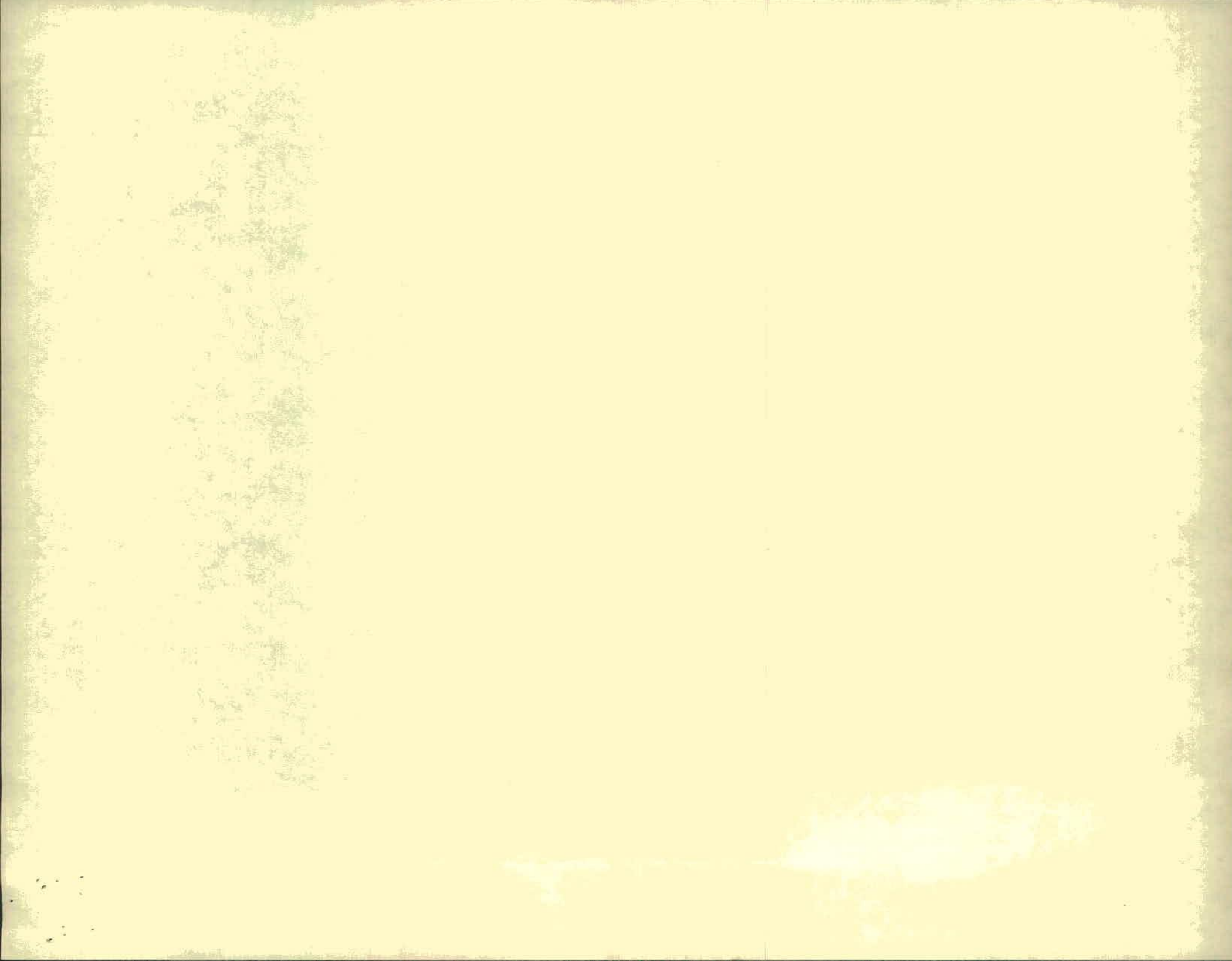
	PROCESS	PROCESSOR	RELEASE NOTE #
1	<u>FIRST ARTICLE INSPECTION REPORT ATTACHED</u>	<u>GFI</u>	<u>N/A</u>
2	<u>REF. GFI MANUFACTURING JOB NUMBER J0260581-001 (10 PCS)</u>	<u>GFI</u>	
3			
4			
5			
6			
7			
8			
9			

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE 03 JANUARY 2013

G.F.I. Q.C. REP.

*[Signature]*



# Σ SIGMA AEROSPACE METALS, LLC.

365 Oser Ave. Hauppauge, NY 11788 USA

631-243-2100 800-471-7890 Fax: 631-231-7446

## CERTIFICATE OF COMPLIANCE

DATE: 12/17/2012

COMPANY NAME: GFI INC.

PURCHASE ORDER #: 0081631

SIGMA INVOICE #: 614102 LINE # 1

SIGMA SALES ORDER # 115760

ITEM DESCRIPTION: 304 1/2 HARD SHEET .020"

SIZE: 24 x 36.375

QUANTITY SHIPPED: 4 PCS

HEAT #: 9TY2

MILL SOURCE: PRECISION SPECIALTY METALS

MATERIAL SPECIFICATIONS: AMS 5911

NOTES:

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THIS MATERIAL MEETS ALL SPECIFICATIONS LISTED.

THE WILLFUL RECORDING OF FALSE, FICTICIOUS OR FRAUDULENT STATEMENTS ON THIS DOCUMENT MAY RESULT IN PUNISHMENT AS A FELONY UNDER FEDERAL STATUTES.

THIS DOCUMENT CERTIFIES THAT ALL ITEMS NOTED ABOVE ARE IN CONFORMANCE WITH THE CONTRACT DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTATION. ALL REQUIRED PROCESS CERTIFICATION AND CHEMICAL AND PHYSICAL TEST REPORTS ARE ON FILE IN THIS FACILITY AND ARE SUBJECT TO REVIEW.

  
Greg Saladino  
Quality Control Manager







# Precision Specialty Metals, Inc

3301 Medford Street  
Los Angeles, CA 90063

Certificate Of Test  
Cert. # 105973-001

Date: 11/29/11

Page: 1

Sold To: 7440

Ship To: 0

Order Nbr: 105973

Specs: ASTM-A-666-10, AMS-5911-B

Cust. P.O.:

Ln	Type	Fin	Temp	Thick	Width	Length	Job Nbr	Coil Nbr	Tst	Heat Nbr	Weight	Count
1	304	2B	1/2	.0200 In	36.000 In	Coil	33628	05121	2	9TY2	7,900 Lbs	2 COILS

## Chemical Analysis

Heat#	C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Ti	Cb	Ta	N	Co	Al	B	Fe	Other	Supplier
9TY2	.055	1.66	.035	.0010	.25	18.21	8.04	0.36	0.43				.037	0.16					N A S

## Mechanical Properties And Test Results

Coil#	Test #	Heat#	Tensile PSI	Yield PSI .2% Offset	%Elong in 2"	Hardness	Conv.	Bend	Test Angle	Grain Size	Embr	Lab#	Other
05121	2	9TY2	163900	135700	10.0	30N 56.7	RC 37	2XT	180			11-1211	

## Other Tests and Comments

Coil	Test	Comment
05121	2	SURFACE ROUGHNESS: RA 5 MICROINCHES ACTUAL WIDTH IS 36.250"
Notes:		CERTIFIED ALSO TO AMS-5904-B FOR TYPE 302

(Continued on Next Page)

DATE: 12/17/2012  
SO #: 0081631

FROM: SIGMA AEROSPACE METALS  
SO #: 115760

TO: GFI  
PCS: 4



Precision Specialty Metals, Inc

3301 Medford Street

Los Angeles, CA 90063

Certificate Of Test

Cert. # 105973-001

Date: 11/29/11

Page: 2

The absence of interleave paper can lead to surface damage. Precision Specialty Metals, Inc. will assume no liability for damage paper interleave prevents, on orders that prohibit paper interleave.

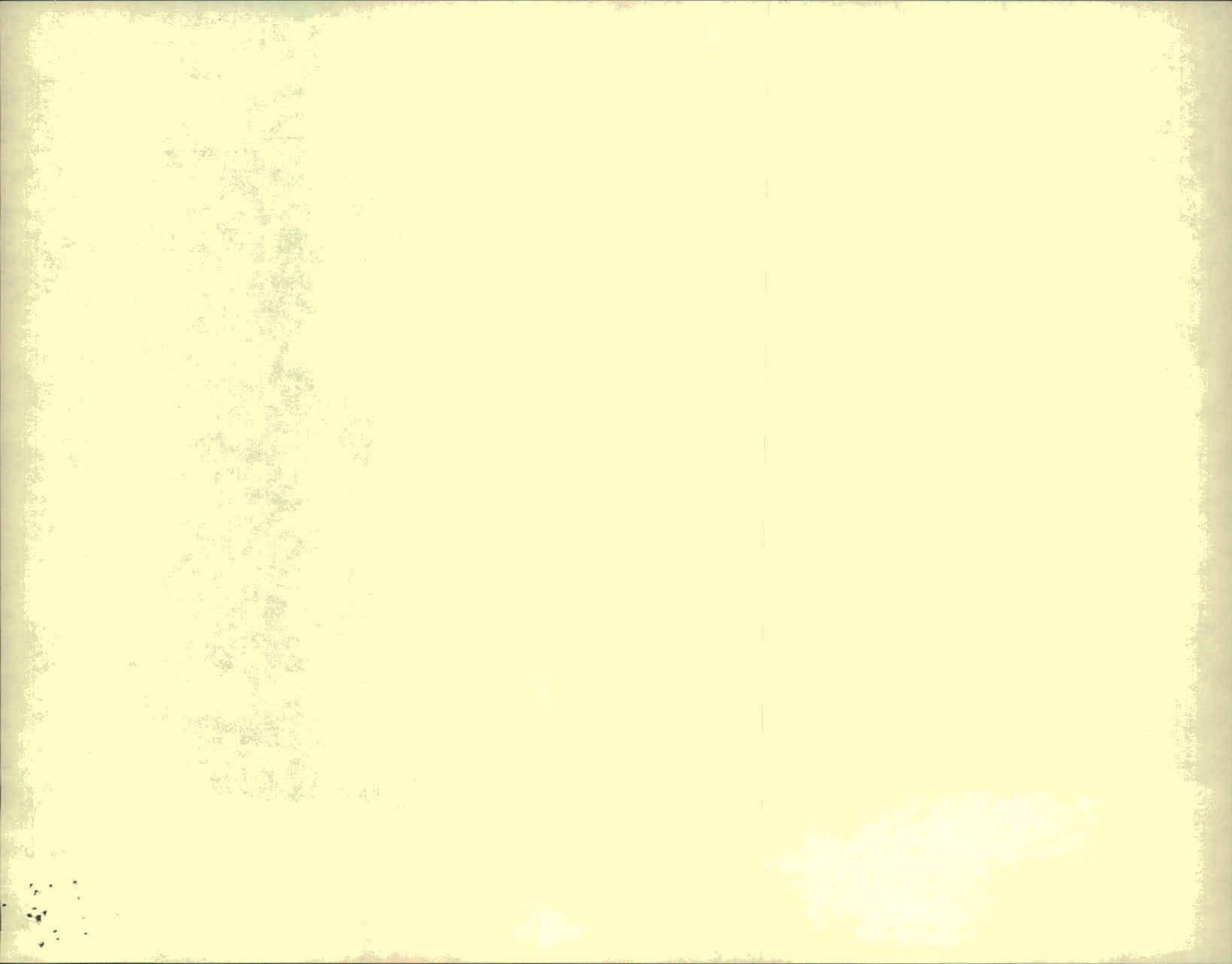
I hereby certify that the above figures are correct as contained in the records of the company and the material meets the specifications stated.

*Frida Vaserman*  
Metallurgy Department

DATE: 12/17/2012  
PO #: 0081631

FROM: SIGMA AEROSPACE METALS  
SO #: 115760

TO: GFI  
PCS: 4







**NORTH AMERICAN  
STAINLESS**

# METALLURGICAL TEST REPORT

6870 Highway 42 East  
Ghent, KY 41045-9615  
(502) 347-6000

Certificate: 665698 02  
Customer: 0065 003

Mail To:  
PRECISION SPECIALTY METALS, INC.  
LOS ANGELES, CA 90063

Ship To:  
PRECISION SPECIALTY METALS, INC.  
3301 MEDFORD STREET  
LOS ANGELES, CA 90063

Date: 8/22/2011 Page: 1

Steel: 304

Finish: 2D

Your Order: C62965

NAS Order: AN 0486376 01

Corrosion: ASTM A262/02aE, 180Bend-OK

## PRODUCT DESCRIPTION:

STAINLESS STEEL COIL, C.R. ANNEALED & PICKLED. UNS 30400  
ASTM A240/10, A480/10, A666/10; ASME SA240/10, SA480/10, SA666/10  
CHEM ONLY ON FOLLOWING ASTM: A276/10, A479/10a, A484/10, A312/09  
CHEM ONLY ON FOLLOWING ASME: SA312/10, SA479/10  
AMS 5513J XMRK; MIL-S-5059D AMEND3 (X CROWN MEAS)  
NACE MR0175/01, MR0103/07; QQS766D-A X MAG PERM  
MIN. SOLUTION ANNEAL TEMP 1900F, WATER QUENCHED  
PSM-SS-120 Chem. 8.4 304 with exceptions

## REMARKS:

Mat'l is Free of Mercury Contamination. No weld repairs.  
EN 10204:2004 3.1; QQS763F Cond A; RoHS Compliant  
Material is Free of Radioactive Contamination  
NAS Steel Making Process: EAF, AOD, & Cont. Casting  
Product Mfg. by a Quality Mgt. Sys. in Conf. w/ISO 9001  
\*Melted & Manufactured in the USA; Mat'l is DFARS Compliant

Product ID #	Coil #	Thickness	Width	Weight	Length	Mark	Pieces
079TY2 B	* 079TY2 B	.0725	37.0000	17,555	COIL	1913.5	11

## CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

HEAT	CM	AL	B	C	CO	CR	CU	MN	MO	N
9TY2	US	.0030	.0006	.0550	.1625	18.2115	.4275	1.6570	.3555	.0374
Lab Check:		< .0001	< .0001	.0462	.1570	18.1300	.4210	1.6670	.3610	.0392
		NB	NI	P	S	SI				
		.0200	8.0410	.0350	.0010	.2460				
Lab Check:		.0180	8.1220	.0400	.0015	.3250				

## MECHANICAL PROPERTIES

Product ID #	Coil #	UTS KSI	.2% YS KSI	ELONG %-2"	Hard RB	Tail Hard
079TY2 B	079TY2 B	93.93	42.93	48.96	82.00	80.00

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

QC ENGINEER

ERIC HESS

8/22/2011

DATE: 12/17/2012  
PO #: 0081631

FROM: SIGMA AEROSPACE METALS  
SO #: 115760

TO: GFI  
PCS: 4



## Eric Downing

---

**From:** David Shepherd <dshepherd@dartaero.com>  
**Sent:** Friday, January 04, 2013 11:46 AM  
**To:** 'Linda Lacelle'  
**Cc:** 'Eric Downing'; 'Pat Smith'  
**Subject:** RE: d4735-1 - phi parts

Yup ... acceptable deviation ... Does the shape match Rev B of the dwg, which is part of the ECN package on Kim's desk?

David

---

**From:** Linda Lacelle [<mailto:llacelle@dartaero.com>]  
**Sent:** January-04-13 9:09 AM  
**To:** [dshepherd@dartaero.com](mailto:dshepherd@dartaero.com)  
**Cc:** 'Eric Downing'; Pat Smith  
**Subject:** d4735-1 - phi parts  
**Importance:** High

David, we just rec'd the parts and it looks like they used 304 SS, but ½ hard, is this acceptable? Need to know asap...

Linda Lacelle  
Production manager  
Dart Aerospace